

Thesis Title Factors Affecting the Efficiency of Science Teachers' Teamwork in Secondary Schools under the Jurisdiction of the Department of General Education in Educational Region Ten

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ABSTRACT

The purpose of this research were to study the levels of the factors of working team of science teachers' teamwork efficiency in performance and satisfaction, and to study the factors related significant with the efficiency of science teachers' teamwork.

The samples of this research were science teachers in secondary schools during academic year 1991 in educational region ten. The samples were selected by multi-stage random sampling and collected from 295 science teachers. The instrument used to collect the data was questionnaire, which consisted of three parts : the first part covered the efficiency of instruction, measurement and evaluation, care, guidance and research; the second part covered the efficiency of satisfaction in teamwork service, fellowship and work, and the third part dealt with the factors of teamwork which affected the science teachers' efficiency. Data were analyzed by mean (\bar{X}), standard deviation (S.D.) and stepwise multiple regression analysis using SPSS PC programme.

The research findings revealed as follows :

1.The level of teamwork performance of science teachers revealed at high level, but the level of performance in an administrator's behavior,size of team and budget revealed at moderate level.

2.The level efficiency of science teachers'teamwork in performance and satisfaction were high and also all variables related to practice in high level.

3.Three performance factors affecting the efficiency of science teachers' teamwork were creativity,goal and purpose,and administrator's behavior respectively. In satisfaction, the seven satisfaction factors affecting the efficiency of science teachers' teamwork were quality of listening, value and culture, creativity, size of team, administrator's behavior, conflict management, and goal and purpose. The factors affecting the efficiency of science teachers' teamwork which consisted both in performance and satisfaction were also seven out of fifteen. Those factors were creativity, value and culture, evaluation, communication, administrator's behavior, conflict management, and goal and purpose. Seven factors could explain 67.22 percent of variance of the science teachers' teamwork efficiency at .05 level. The equation of science teachers' teamwork efficiency in terms of standard score indicated as follows :

$$Z' = .3330X_{11} + .2159X_6 + .1397X_1 + .1916X_{10} \\ + .1275X_1 - .1920X_{12} + .1783X_7$$